

**Amendments to the Claims:**

This listing of claims will replace all prior listings of claims in the application:

**Listing of Claims:**

1. (previously presented) A transgenic knockout mouse whose genome comprises a disruption in each allele of the mouse's endogenous melanopsin gene, wherein the disruption in each allele prevents the expression of a functional melanopsin protein in cells of the mouse and the mouse exhibits an attenuated circadian rhythm phase-shift in response to a light pulse during a dark portion of an environmental dark/light cycle.
2. (cancelled)
3. (cancelled)
4. (previously presented) A cell isolated from the transgenic knockout mouse of claim 1.
- 5.-21. (cancelled)